



# Integrated Agromet Advisory Service Bulletin from 20<sup>th</sup> to 24<sup>th</sup> Jan'18

## Dimapur District

**Bulletin No:06/2018**

### *Weather summary of the preceding week*

- No rain occurred the past week
- Maximum and minimum temperatures ranged 20<sup>0</sup>C to 23<sup>0</sup>C and 7<sup>0</sup>C to 10<sup>0</sup>C, respectively.
- Relative humidity varied from 40% to 88%.
- Wind speed ranged from 3 to 4 kmph

### *Weather forecast valid upto 24<sup>th</sup> Jan 2018*

- Probability of no rain the coming week.
- **Max temp** is likely to be 26<sup>0</sup>C - 27<sup>0</sup>C and the **min temp** 12<sup>0</sup>C to 13<sup>0</sup>C
- **Sky is likely to be clear** the coming week
- **Relative Humidity** is likely to range from 31% to 90%.
- **Wind speed** may reach upto 2- 3 kmph  
**Wind direction** will be easterly

### **General Recommendations**

- Spraying operation should be done only on dry/clear weather
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides

### *Field crops*

Main Crops	Stage	Pest/ Diseases	Agro-meteorological Advisories
<i>TRC/WRC paddy</i>	Storage		<i>Dry the paddy grains properly and regularly before storing to reduce storage insect pests and fungus. Paddy grains can be mixed with neem leaves at the time of storage to reduce storage pests.</i>
<i>Toria</i>	Maturing stage	-	<i>Keep the field free from weeds and daily scouting of the field should be done for aphid</i>
<i>Rabi maize</i>	Silking stage		<i>Weeding and earthing up should be carried out</i>
<i>Linseed/lentil</i>	vegetative stage		<i>Soil moisture conservation techniques like mulching with crop residue is recommended</i>

### *Horticultural crop*

<i>Khasi mandarin</i>	Harvesting stage		<i>Harvest the ripened fruits at the right time. Collect and discard the fallen fruits</i>
<i>Vegetables</i>			<i>Intercultural operations in vegetables are advised to remove the weeds.</i>
<i>Cauliflower, cabbage,</i>		Black spot Cut worm	<i>Prevailing weather may conducive for black spot disease in Cole Crops and other leafy vegetables. On leaves 'V' shaped chlorotic to yellow lesions develop from</i>

			<p><i>the leaf margins. They become black later. The veins and veinlets become black. Systemic infection spreads to the root. The vascular bundle in the stem becomes black followed by integration of fleshy stalk. The attack of soft rot organisms causes further deterioration. The cabbage heads and cauliflower curds are invaded and become discoloured.</i></p> <p><i>To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed. Intercultural operation should be avoided when the plants are wet. Provision of drainage and free air movement to dry the moisture present in the soil</i></p> <p><i>Spray Neem seed kernel extract @500g/ha twice at 10 days interval.</i></p> <p><i>Frequent Monitoring should be done and mechanically destroy the caterpillar</i></p>
<b>Litchi</b>			<p><i>Mulch the tree basin, protect young litchi plants from cold and suppress new flush by application of growth inhibitors</i></p>
<b>Ginger / turmeric</b>	Maturity stage		<p><i>For Ginger and turmeric, field must be inspected daily for disease appearance. While inspecting, the healthy plants/plots must be marked and kept for planting in the next season. Marking has to be done properly otherwise when plant matures and gets dried up, it will be very difficult to find out the marked plots.</i></p>
<p><b>Livestock</b></p> <ul style="list-style-type: none"> <li>• Ensure periodic vaccination of animals against FMD, Brucellosis, Haemorrhagic Septicaemia, Anthrax</li> <li>• Animals should be given mineral mixture along with salt regularly and wheat grains, jaggery etc. may be provided @ 10% - 20% in the daily ration during winter season to meet the energy requirement of the animals</li> <li>• Avoid feeding of damp and foul smelling feed to all livestock and poultry</li> </ul>			
<b>Poultry</b>			<ul style="list-style-type: none"> <li>• Provide good ventilation but prevent chill air from entering in</li> <li>• Seal all the cracks and crevices in the house</li> <li>• Side curtains can be used during severe winds and draft thus sealing the house from cold draft</li> <li>• Oil or fat can be added to feed and energy levels in the feed can be raised to meet the higher energy need of the bird</li> <li>• Provide warm water to the birds</li> </ul>
<b>Piggery</b>			<ul style="list-style-type: none"> <li>• Swine flu may occur in pig at all stages. It is a viral flu and highly contagious. Clinical signs include high fever, skin lesions, convulsions, constipation followed by diarrhea and vomiting, less appetite. Once the symptoms is noticed, immediately informed the nearby veterinary doctor</li> <li>• Sick or injured animals should be attended to immediately, preferably move to a warm comfortable environment. Medications should be used only on the advice of a veterinarian, following recommended treatment.</li> </ul>

## *Fisheries*



As the water temperature of your pond falls, the fish will require less food. Never overfeed your fish. Excess food will pollute the pond water, so only feed amounts that will be completely consumed by your fish within 2 minutes

## SCIENTIFIC EXPERT COMMITTEE

Sl.no	Name	Designation	Department	
1	Dr.D.J. Rajkhowa	Principle Scientist	Agronomy	djrajkhowa@gmail.com
2	Dr. L.K. Baishya	Senior Scientist	Agronomy	lkbicar@gmail.com
3	Ph. Romen Sharma	Scientist	Agricultural Extension	romen.agext@gmail.com
4	Dr. Rajesha G	Scientist	Plant Pathology	rajeshag337@gmail.com
5	Dr. Mahak Singh	Scientist	Animal Reproduction & Gynaecology	mahaksinghivri@gmail.com
6	Dr. Azeze Seyie	Scientist	Spices, Plantation & Medicinal & Aromatic Plants	azezeseyie@yahoo.com
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8	Aabon W Yanthan	Scientist	Vegetable Science	aabon.iari@gmail.com



# Integrated Agromet Advisory Service Bulletin from 20<sup>th</sup> to 24<sup>th</sup> Jan'18 Kiphire District

Bulletin No:06/2018

## Weather summary of the preceding week

- No rain occurred the past week
- Maximum and minimum temperatures ranged 22<sup>o</sup>C to 23<sup>o</sup>C and 7<sup>o</sup>C to 9<sup>o</sup>C, respectively.
- Relative humidity varied from 26% to 88%.
- Wind speed ranged from 3 to 4 kmph

## Weather forecast valid upto 24<sup>th</sup> Jan 2018

- Probability of no rain the coming week.
- **Max temp** is likely to be 23<sup>o</sup>C - 24<sup>o</sup>C and the **min temp** 11<sup>o</sup>C to 12<sup>o</sup>C
- **Sky is likely to be clear** the coming week
- **Relative Humidity** is likely to range from 25% to 90%.
- **Wind speed** may reach upto 2-4 kmph
- **Wind direction** will be southeasterly

## General Recommendations

- Spraying operation should be done only on dry/clear weather
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides

## Field crops

Main Crops	Stage	Pest/ Diseases	Agro-meteorological Advisories
<i>TRC/WRC paddy</i>	Storage		<i>Dry the paddy grains properly and regularly before storing to reduce storage insect pests and fungus. Paddy grains can be mixed with neem leaves at the time of storage to reduce storage pests.</i>
<i>Toria</i>	Flowering stage	-	<i>Keep the field free from weeds and daily scouting of the field should be done for aphid</i>
<i>Rabi maize</i>	Silking stage		<i>Weeding and earthing up should be carried out</i>
<i>Linseed/lentil</i>	vegetative stage		<i>Soil moisture conservation techniques like mulching with crop residue is recommended</i>

## Horticultural crop

<i>Khasi mandarin</i>	Harvesting stage		<i>Harvest the ripened fruits at the right time. Collect and discard the fallen fruits</i>
<i>Vegetables</i>			<i>Intercultural operations in vegetables are advised to remove the weeds.</i>
<i>Cauliflower, cabbage,</i>		Black spot Cut worm	<i>Prevailing weather may conducive for black spot disease in Cole Crops and other leafy vegetables. On leaves 'V' shaped chlorotic to yellow lesions develop</i>

			<p>from the leaf margins. They become black later. The veins and veinlets become black. Systemic infection spreads to the root. The vascular bundle in the stem becomes black followed by integration of fleshy stalk. The attack of soft rot organisms causes further deterioration. The cabbage heads and cauliflower curds are invaded and become discoloured.</p> <p>To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed. Intercultural operation should be avoided when the plants are wet. Provision of drainage and free air movement to dry the moisture present in the soil</p> <p>Spray Neem seed kernel extract @500g/ha twice at 10 days interval. Frequent Monitoring should be done and mechanically destroy the caterpillar</p>
<b>Litchi</b>			<p>Mulch the tree basin, protect young litchi plants from cold and suppress new flush by application of growth inhibitors</p>
<b>Ginger / turmeric</b>	Maturity stage		<p>For Ginger and turmeric, field must be inspected daily for disease appearance. While inspecting, the healthy plants/plots must be marked and kept for planting in the next season. Marking has to be done properly otherwise when plant matures and gets dried up, it will be very difficult to find out the marked plots.</p>
<p><b>Livestock</b></p> <ul style="list-style-type: none"> <li>• Ensure periodic vaccination of animals against FMD, Brucellosis, Haemorrhagic Septicaemia, Anthrax</li> <li>• Animals should be given mineral mixture along with salt regularly and wheat grains, jaggery etc. may be provided @ 10% - 20% in the daily ration during winter season to meet the energy requirement of the animals</li> <li>• Avoid feeding of damp and foul smelling feed to all livestock and poultry</li> </ul>			
<b>Poultry</b>	<ul style="list-style-type: none"> <li>➤ Provide good ventilation but prevent chill air from entering in</li> <li>➤ Seal all the cracks and crevices in the house</li> <li>➤ Side curtains can be used during severe winds and draft thus sealing the house from cold draft</li> <li>➤ Oil or fat can be added to feed and energy levels in the feed can be raised to meet the higher energy need of the bird</li> <li>➤ Provide warm water to the birds</li> </ul>		
<b>Piggery</b>	<ul style="list-style-type: none"> <li>➤ Swine flu may occur in pig at all stages. It is a viral flu and highly contagious. Clinical signs include high fever, skin lesions, convulsions, constipation followed by diarrhea and vomiting, less appetite. Once the symptoms is noticed, immediately informed the nearby veterinary doctor</li> <li>➤ Sick or injured animals should be attended to immediately, preferably move to a warm comfortable environment. Medications should be used only on the advice of a veterinarian, following recommended treatment.</li> </ul>		
<p><b>Fisheries</b></p>			



As the water temperature of your pond falls, the fish will require less food. Never overfeed your fish. Excess food will pollute the pond water, so only feed amounts that will be completely consumed by your fish within 2 minutes

#### SCIENTIFIC EXPERT COMMITTEE

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# Integrated Agromet Advisory Service Bulletin from 20<sup>th</sup> to 24<sup>th</sup> Jan '18

## Kohima District

**Bulletin No:06/2018**

### *Weather summary of the preceding week*

- No rain occurred the past week
- Maximum and minimum temperatures ranged 17<sup>o</sup>C to 18<sup>o</sup>C and 4<sup>o</sup>C to 6<sup>o</sup>C, respectively.
- Relative humidity varied from 37% to 90%.
- Wind speed ranged from 3 to 4 kmph

### *Weather forecast valid upto 24<sup>th</sup> Jan 2018*

- Probability of no rain the coming week.
- **Max temp** is likely to be 18<sup>o</sup>C - 19<sup>o</sup>C and the **min temp** 7<sup>o</sup>C to 8<sup>o</sup>C
- **Sky is likely to be clear** the coming week
- **Relative Humidity** is likely to range from 28% to 89%.
- **Wind speed** may reach upto 3-4 kmph
- **Wind direction** will be mostly easterly

### **General Recommendations**

- Spraying operation should be done only on dry/clear weather
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides

### *Field crops*

Main Crops	Stage	Pest/ Diseases	Agro-meteorological Advisories
<i>TRC/WRC paddy</i>	Storage		<i>Dry the paddy grains properly and regularly before storing to reduce storage insect pests and fungus. Paddy grains can be mixed with neem leaves at the time of storage to reduce storage pests.</i>
<i>Toria</i>	Flowering stage	-	<i>Keep the field free from weeds and daily scouting of the field should be done for aphid</i>
<i>Rabi maize</i>	Silking stage		<i>Weeding and earthing up should be carried out</i>
<i>Linseed/lentil</i>	vegetative stage		<i>Soil moisture conservation techniques like mulching with crop residue is recommended</i>

### *Horticultural crop*

<i>Khasi mandarin</i>	Harvesting stage		<i>Harvest the ripened fruits at the right time. Collect and discard the fallen fruits</i>
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<b>Vegetables</b>			<i>Intercultural operations in vegetables are advised to remove the weeds.</i>
<b>Cauliflower, cabbage,</b>		Black spot	<i>Prevailing weather may conducive for black spot disease in Cole Crops and other leafy vegetables. On leaves 'V' shaped chlorotic to yellow lesions develop from the leaf margins. They become black later. The veins and veinlets become black. Systemic infection spreads to the root. The vascular bundle in the stem becomes black followed by integration of fleshy stalk. The attack of soft rot organisms causes further deterioration. The cabbage heads and cauliflower curds are invaded and become discoloured. To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed. Intercultural operation should be avoided when the plants are wet. Provision of drainage and free air movement to dry the moisture present in the soil</i>
		Cut worm	<i>Spray Neem seed kernel extract @500g/ha twice at 10 days interval. Frequent Monitoring should be done and mechanically destroy the caterpillar</i>
<b>Litchi</b>			<i>Mulch the tree basin, protect young litchi plants from cold and suppress new flush by application of growth inhibitors</i>
<b>Ginger / turmeric</b>	Maturity stage		<i>For Ginger and turmeric, field must be inspected daily for disease appearance. While inspecting, the healthy plants/plots must be marked and kept for planting in the next season. Marking has to be done properly otherwise when plant matures and gets dried up, it will be very difficult to find out the marked plots.</i>
<b>Livestock</b>			
<ul style="list-style-type: none"> <li>• Ensure periodic vaccination of animals against FMD, Brucellosis, Haemorrhagic Septicaemia, Anthrax</li> <li>• Animals should be given mineral mixture along with salt regularly and wheat grains, jaggery etc. may be provided @ 10% - 20% in the daily ration during winter season to meet the energy requirement of the animals</li> <li>• Avoid feeding of damp and foul smelling feed to all livestock and poultry</li> </ul>			
<b>Poultry</b>	<ul style="list-style-type: none"> <li>➤ Provide good ventilation but prevent chill air from entering in</li> <li>➤ Seal all the cracks and crevices in the house</li> <li>➤ Side curtains can be used during severe winds and draft thus sealing the house from cold draft</li> <li>➤ Oil or fat can be added to feed and energy levels in the feed can be raised to meet the higher energy need of the bird</li> <li>➤ Provide warm water to the birds</li> </ul>		

	<b>Piggery</b>	<ul style="list-style-type: none"> <li>➤ Swine flu may occur in pig at all stages. It is a viral flu and highly contagious. Clinical signs include high fever, skin lesions, convulsions, constipation followed by diarrhea and vomiting, less appetite. Once the symptoms is noticed, immediately informed the nearby veterinary doctor</li> <li>➤ Sick or injured animals should be attended to immediately, preferably move to a warm comfortable environment. Medications should be used only on the advice of a veterinarian, following recommended treatment.</li> </ul>
	<b>Fisheries</b>	
		As the water temperature of your pond falls, the fish will require less food. Never overfeed your fish. Excess food will pollute the pond water, so only feed amounts that will be completely consumed by your fish within 2 minutes

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8	Aabon W Yanthan	Scientist	Vegetable Science	aabon.iari@gmail.com



## Integrated Agromet Advisory Service Bulletin from 20<sup>th</sup> to 24<sup>th</sup> Jan'18 Longleng District

**Bulletin No:06/2018**

<i>Weather summary of the preceding week</i>			<i>Weather forecast valid upto 24<sup>th</sup> Jan 2018</i>
<ul style="list-style-type: none"> <li>▪ No rain occurred the past week</li> <li>▪ Maximum and minimum temperatures ranged 21<sup>0</sup>C to 22<sup>0</sup>C and 7<sup>0</sup>C to 9<sup>0</sup>C, respectively.</li> <li>▪ Relative humidity varied from 60% to 95%.</li> <li>▪ Wind speed ranged from 1 to 2 kmph</li> </ul>			<ul style="list-style-type: none"> <li>▪ Probability of no rain the coming week.</li> <li>▪ <b>Max temp</b> is likely to be 23<sup>0</sup>C - 24<sup>0</sup>C and the <b>min temp</b> 11<sup>0</sup>C to 12<sup>0</sup>C</li> <li>▪ <b>Sky is likely to be clear</b> the coming week</li> <li>▪ <b>Relative Humidity</b> is likely to range from 36% to 85%.</li> <li>▪ <b>Wind speed</b> may reach upto 2- 3 kmph</li> <li>▪ <b>Wind direction</b> will be mostly southeasterly</li> </ul>
<p><b>General Recommendations</b></p> <ul style="list-style-type: none"> <li>• Spraying operation should be done only on dry/clear weather</li> <li>• Obtain seeds from reputed/certified/reliable source</li> <li>• Use fertilizers/pesticides as per recommended doses for the location</li> <li>• Preference must be given on use of organic manures/bio-fertilizers &amp; bio-pesticides</li> </ul>			
<b>Field crops</b>			
Main Crops	Stage	Pest/ Diseases	Agro-meteorological Advisories
<i>TRC/WRC paddy</i>	Storage		<i>Dry the paddy grains properly and regularly before storing to reduce storage insect pests and fungus. Paddy grains can be mixed with neem leaves at the time of storage to reduce storage pests.</i>
<i>Toria</i>	Flowering stage	-	<i>Keep the field free from weeds and daily scouting of the field should be done for aphid</i>
<i>Rabi maize</i>	Silking stage		<i>Weeding and earthing up should be carried out</i>
<i>Linseed/lentil</i>	vegetative stage		<i>Soil moisture conservation techniques like mulching with crop residue is recommended</i>
<b>Horticultural crop</b>			
<i>Khasi mandarin</i>	Harvesting stage		<i>Harvest the ripened fruits at the right time. Collect and discard the fallen fruits</i>
<i>Vegetables</i>			<i>Intercultural operations in vegetables are advised to remove the weeds.</i>
<i>Cauliflower, cabbage,</i>		Black spot Cut worm	<i>Prevailing weather may conducive for black spot disease in Cole Crops and other leafy vegetables. On leaves 'V' shaped chlorotic to yellow</i>

			<p><i>lesions develop from the leaf margins. They become black later. The veins and veinlets become black. Systemic infection spreads to the root. The vascular bundle in the stem becomes black followed by integration of fleshy stalk. The attack of soft rot organisms causes further deterioration. The cabbage heads and cauliflower curds are invaded and become discoloured.</i></p> <p><i>To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed. Intercultural operation should be avoided when the plants are wet. Provision of drainage and free air movement to dry the moisture present in the soil</i></p> <p><i>Spray Neem seed kernel extract @500g/ha twice at 10 days interval. Frequent Monitoring should be done and mechanically destroy the caterpillar</i></p>
<b>Litchi</b>			<i>Mulch the tree basin, protect young litchi plants from cold and suppress new flush by application of growth inhibitors</i>
<b>Ginger / turmeric</b>	Maturity stage		<i>For Ginger and turmeric, field must be inspected daily for disease appearance. While inspecting, the healthy plants/plots must be marked and kept for planting in the next season. Marking has to be done properly otherwise when plant matures and gets dried up, it will be very difficult to find out the marked plots.</i>
<b>Livestock</b>			
<ul style="list-style-type: none"> <li>• Ensure periodic vaccination of animals against FMD, Brucellosis, Haemorrhagic Septicaemia, Anthrax</li> <li>• Animals should be given mineral mixture along with salt regularly and wheat grains, jaggery etc. may be provided @ 10% - 20% in the daily ration during winter season to meet the energy requirement of the animals</li> <li>• Avoid feeding of damp and foul smelling feed to all livestock and poultry</li> </ul>			
<b>Poultry</b>	<ul style="list-style-type: none"> <li>➤ Provide good ventilation but prevent chill air from entering in</li> <li>➤ Seal all the cracks and crevices in the house</li> <li>➤ Side curtains can be used during severe winds and draft thus sealing the house from cold draft</li> <li>➤ Oil or fat can be added to feed and energy levels in the feed can be raised to meet the higher energy need of the bird</li> <li>➤ Provide warm water to the birds</li> </ul>		
<b>Piggery</b>	<ul style="list-style-type: none"> <li>➤ Swine flu may occur in pig at all stages. It is a viral flu and highly contagious. Clinical signs include high fever, skin lesions, convulsions, constipation followed by diarrhea and vomiting, less appetite. Once the symptoms is noticed, immediately informed the nearby veterinary doctor</li> </ul>		

➤ Sick or injured animals should be attended to immediately, preferably move to a warm comfortable environment. Medications should be used only on the advice of a veterinarian, following recommended treatment.

*Fisheries*

As the water temperature of your pond falls, the fish will require less food. Never overfeed your fish. Excess food will pollute the pond water, so only feed amounts that will be completely consumed by your fish within 2 minutes



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# Integrated Agromet Advisory Service Bulletin from 20<sup>th</sup> to 24<sup>th</sup> Jan '18

## Mokokchung District

**Bulletin No:06/2018**

### *Weather summary of the preceding week*

- No rain occurred the past week
- Maximum and minimum temperatures ranged 19<sup>o</sup>C to 21<sup>o</sup>C and 6<sup>o</sup>C to 8<sup>o</sup>C, respectively.
- Relative humidity varied from 42% to 90%.
- Wind speed ranged from 3 to 5 kmph

### *Weather forecast valid upto 24<sup>th</sup> Jan 2018*

- Probability of no rain the coming week.
- **Max temp** is likely to be 23<sup>o</sup>C - 24<sup>o</sup>C and the **min temp** 11<sup>o</sup>C to 12<sup>o</sup>C
- **Sky is likely to be clear** the coming week
- **Relative Humidity** is likely to range from 40% to 87%.
- **Wind speed** may reach upto 2-4 kmph
- **Wind direction** will be southeasterly

### **General Recommendations**

- Spraying operation should be done only on dry/clear weather
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides

### *Field crops*

Main Crops	Stage	Pest/ Diseases	Agro-meteorological Advisories
<i>TRC/WRC paddy</i>	Storage		<i>Dry the paddy grains properly and regularly before storing to reduce storage insect pests and fungus. Paddy grains can be mixed with neem leaves at the time of storage to reduce storage pests.</i>
<i>Toria</i>	Flowering stage	-	<i>Keep the field free from weeds and daily scouting of the field should be done for aphid</i>
<i>Rabi maize</i>	Silking stage		<i>Weeding and earthing up should be carried out</i>
<i>Linseed/lentil</i>	vegetative stage		<i>Soil moisture conservation techniques like mulching with crop residue is recommended</i>

### *Horticultural crop*

<i>Khasi mandarin</i>	Harvesting stage		<i>Harvest the ripened fruits at the right time. Collect and discard the fallen fruits</i>
<i>Vegetables</i>			<i>Intercultural operations in vegetables are advised to remove the weeds.</i>

<b>Cauliflower, cabbage,</b>		Black spot	<i>Prevailing weather may conducive for black spot disease in Cole Crops and other leafy vegetables. On leaves 'V' shaped chlorotic to yellow lesions develop from the leaf margins. They become black later. The veins and veinlets become black. Systemic infection spreads to the root. The vascular bundle in the stem becomes black followed by integration of fleshy stalk. The attack of soft rot organisms causes further deterioration. The cabbage heads and cauliflower curds are invaded and become discoloured.</i> <i>To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed. Intercultural operation should be avoided when the plants are wet. Provision of drainage and free air movement to dry the moisture present in the soil</i>
		Cut worm	<i>Spray Neem seed kernel extract @500g/ha twice at 10 days interval.</i> <i>Frequent Monitoring should be done and mechanically destroy the caterpillar</i>
<b>Litchi</b>			<i>Mulch the tree basin, protect young litchi plants from cold and suppress new flush by application of growth inhibitors</i>
<b>Ginger / turmeric</b>	Maturity stage		<i>For Ginger and turmeric, field must be inspected daily for disease appearance. While inspecting, the healthy plants/plots must be marked and kept for planting in the next season. Marking has to be done properly otherwise when plant matures and gets dried up, it will be very difficult to find out the marked plots.</i>

### **Livestock**

- Ensure periodic vaccination of animals against FMD, Brucellosis, Haemorrhagic Septicaemia, Anthrax
- Animals should be given mineral mixture along with salt regularly and wheat grains, jaggery etc. may be provided @ 10% - 20% in the daily ration during winter season to meet the energy requirement of the animals
- Avoid feeding of damp and foul smelling feed to all livestock and poultry

<b>Poultry</b>	<ul style="list-style-type: none"> <li>➤ Provide good ventilation but prevent chill air from entering in</li> <li>➤ Seal all the cracks and crevices in the house</li> <li>➤ Side curtains can be used during severe winds and draft thus sealing the house from cold draft</li> <li>➤ Oil or fat can be added to feed and energy levels in the feed can be raised to meet the higher energy need of the bird</li> <li>➤ Provide warm water to the birds</li> </ul>
<b>Piggery</b>	<ul style="list-style-type: none"> <li>➤ Swine flu may occur in pig at all stages. It is a viral flu and highly contagious. Clinical signs include high fever, skin lesions, convulsions, constipation followed by diarrhea and vomiting, less appetite. Once the symptoms is noticed, immediately informed the nearby veterinary doctor</li> <li>➤ Sick or injured animals should be attended to immediately, preferably move to a warm comfortable environment. Medications should be used only on the advice of a veterinarian, following recommended treatment.</li> </ul>



### *Fisheries*

As the water temperature of your pond falls, the fish will require less food. Never overfeed your fish. Excess food will pollute the pond water, so only feed amounts that will be completely consumed by your fish within 2 minutes.

#### SCIENTIFIC EXPERT COMMITTEE

Sl.no	Name	Designation	Department	
1	Dr.D.J. Rajkhowa	Principle Scientist	Agronomy	djrajkhowa@gmail.com
2	Dr. L.K. Baishya	Senior Scientist	Agronomy	lkbicar@gmail.com
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4	Dr. Rajesha G	Scientist	Plant Pathology	rajeshag337@gmail.com
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6	Dr. Azeze Seyie	Scientist	Spices, Plantation & Medicinal & Aromatic Plants	azezeseyie@yahoo.com
7	Jyotish Barman	Scientist	Fisheries Resource Management	jyotish5@gmail.com
8	Aabon W Yanthan	Scientist	Vegetable Science	aabon.iari@gmail.com



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ICAR · RCNEH

ICAR RESEARCH COMPLEX FOR NEH REGION  
(Indian Council of Agricultural Research)  
NAGALAND CENTER, JHARNAPANI, MEDZIPHEMA

## Integrated Agromet Advisory Service Bulletin from 20<sup>th</sup> to 24<sup>th</sup> Jan '18 Mon District

Bulletin No:06/2018

<i>Weather summary of the preceding week</i>		<i>Weather forecast valid upto 24<sup>th</sup> Jan 2018</i>	
<ul style="list-style-type: none"> <li>▪ No rain occurred the past week</li> <li>▪ Maximum and minimum temperatures ranged 18<sup>0</sup>C to 19<sup>0</sup>C and 6<sup>0</sup>C to 7<sup>0</sup>C, respectively.</li> <li>▪ Relative humidity varied from 36% to 85%</li> <li>▪ Wind speed ranged from 5 to 6 kmph</li> </ul>		<ul style="list-style-type: none"> <li>▪ Probability of no rain the coming week.</li> <li>▪ <b>Max temp</b> is likely to be 22<sup>0</sup>C - 23<sup>0</sup>C and the <b>min temp</b> 10<sup>0</sup>C to 11<sup>0</sup>C</li> <li>▪ <b>Sky is likely to be clear</b> the coming week</li> <li>▪ <b>Relative Humidity</b> is likely to range from 37% to 85%.</li> <li>▪ <b>Wind speed</b> may reach upto 1- 2 kmph</li> <li>▪ <b>Wind direction</b> will be southeasterly</li> </ul>	
<b>General Recommendations</b>			
<ul style="list-style-type: none"> <li>• Spraying operation should be done only on dry/clear weather</li> <li>• Obtain seeds from reputed/certified/reliable source</li> <li>• Use fertilizers/pesticides as per recommended doses for the location</li> <li>• Preference must be given on use of organic manures/bio-fertilizers &amp; bio-pesticides</li> </ul>			
<b>Field crops</b>			
<b>Main Crops</b>	<b>Stage</b>	<b>Pest/ Diseases</b>	<b>Agro-meteorological Advisories</b>
<i>TRC/WRC paddy</i>	Storage		<i>Dry the paddy grains properly and regularly before storing to reduce storage insect pests and fungus. Paddy grains can be mixed with neem leaves at the time of storage to reduce storage pests.</i>
<i>Toria</i>	Maturing stage	-	<i>Soil moisture conservation techniques like mulching with crop residue is recommended Keep the field free from weeds and daily scouting of the field should be done for aphid.</i>
<i>Rabi maize</i>	Maturing stage		<i>Provide mulching to conserve moisture</i>
<i>Linseed/lentil</i>	Maturing stage		<i>Soil moisture conservation techniques like mulching with crop residue is recommended</i>
<b>Horticultural crop</b>			
<i>Khasi mandarin</i>	Harvesting stage		<i>Harvest the ripened fruits at the right time. Collect and discard the fallen fruits</i>

<b>Vegetables</b>			<i>Intercultural operations in vegetables are advised to remove the weeds.</i>
<b>Cauliflower, cabbage,</b>		Black spot	<i>Prevailing weather may conducive for black spot disease in Cole Crops and other leafy vegetables. On leaves 'V' shaped chlorotic to yellow lesions develop from the leaf margins. They become black later. The veins and veinlets become black. Systemic infection spreads to the root. The vascular bundle in the stem becomes black followed by integration of fleshy stalk. The attack of soft rot organisms causes further deterioration. The cabbage heads and cauliflower curds are invaded and become discoloured. To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed. Intercultural operation should be avoided when the plants are wet. Provision of drainage and free air movement to dry the moisture present in the soil</i>
		Cut worm	<i>Spray Neem seed kernel extract @500g/ha twice at 10 days interval. Frequent Monitoring should be done and mechanically destroy the caterpillar</i>
<b>Litchi</b>			<i>Mulch the tree basin, protect young litchi plants from cold and suppress new flush by application of growth inhibitors</i>
<b>Ginger / turmeric</b>	Maturity stage		<i>For Ginger and turmeric, field must be inspected daily for disease appearance. While inspecting, the healthy plants/plots must be marked and kept for planting in the next season. Marking has to be done properly otherwise when plant matures and gets dried up, it will be very difficult to find out the marked plots.</i>
<b>Livestock</b>			
<ul style="list-style-type: none"> <li>• Ensure periodic vaccination of animals against FMD, Brucellosis, Haemorrhagic Septicaemia, Anthrax</li> <li>• Animals should be given mineral mixture along with salt regularly and wheat grains, jaggery etc. may be provided @ 10% - 20% in the daily ration during winter season to meet the energy requirement of the animals</li> <li>• Avoid feeding of damp and foul smelling feed to all livestock and poultry</li> </ul>			
<b>Poultry</b>	<ul style="list-style-type: none"> <li>➤ Provide good ventilation but prevent chill air from entering in</li> <li>➤ Seal all the cracks and crevices in the house</li> <li>➤ Side curtains can be used during severe winds and draft thus sealing the house from cold draft</li> <li>➤ Oil or fat can be added to feed and energy levels in the feed can be raised to meet the higher energy need of the bird</li> <li>➤ Provide warm water to the birds</li> </ul>		
<b>Piggery</b>	<ul style="list-style-type: none"> <li>➤ Swine flu may occur in pig at all stages. It is a viral flu and highly contagious. Clinical signs include high fever, skin lesions, convulsions, constipation followed by diarrhea and vomiting, less appetite. Once the symptoms is noticed, immediately informed the nearby veterinary doctor</li> </ul>		

		➤ Sick or injured animals should be attended to immediately, preferably move to a warm comfortable environment. Medications should be used only on the advice of a veterinarian, following recommended treatment.
	<b><i>Fisheries</i></b>	
		As the water temperature of your pond falls, the fish will require less food. Never overfeed your fish. Excess food will pollute the pond water, so only feed amounts that will be completely consumed by your fish within 2 minutes.

## SCIENTIFIC EXPERT COMMITTEE

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5	Dr. Mahak Singh	Scientist	Animal Reproduction & Gynaecology	mahaksinghivri@gmail.com
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7	Jyotish Barman	Scientist	Fisheries Resource Management	jyotish5@gmail.com
8	Aabon W Yanthan	Scientist	Vegetable Science	aabon.iari@gmail.com



# Integrated Agromet Advisory Service Bulletin from 20<sup>th</sup> to 24<sup>th</sup> Jan '18

## Peren District

**Bulletin No:06/2018**

### *Weather summary of the preceding week*

- No rain occurred the past week
- Maximum and minimum temperatures ranged 20<sup>o</sup>C to 21<sup>o</sup>C and 5<sup>o</sup>C to 7<sup>o</sup>C, respectively.
- Relative humidity varied from 39% to 90%.
- Wind speed ranged from 3 to 4 kmph

### *Weather forecast valid upto 24<sup>th</sup> Jan 2018*

- Probability of no rain the coming week.
- **Max temp** is likely to be 22<sup>o</sup>C - 23<sup>o</sup>C and the **min temp** 10<sup>o</sup>C to 11<sup>o</sup>C
- **Sky is likely to be clear** the coming week
- **Relative Humidity** is likely to range from 29% to 85%.
- **Wind speed** may reach upto 2-3 kmph
- **Wind direction** will be southeasterly

### **General Recommendations**

- Spraying operation should be done only on dry/clear weather
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides

### *Field crops*

Main Crops	Stage	Pest/ Diseases	Agro-meteorological Advisories
<i>TRC/WRC paddy</i>	Storage		<i>Dry the paddy grains properly and regularly before storing to reduce storage insect pests and fungus. Paddy grains can be mixed with neem leaves at the time of storage to reduce storage pests.</i>
<i>Toria</i>	Flowering stage	-	<i>Keep the field free from weeds and daily scouting of the field should be done for aphid</i>
<i>Rabi maize</i>	Silking stage		<i>Weeding and earthing up should be carried out</i>
<i>Linseed/lentil</i>	vegetative stage		<i>Soil moisture conservation techniques like mulching with crop residue is recommended</i>

### *Horticultural crop*

<i>Khasi mandarin</i>	Harvesting stage		<i>Harvest the ripened fruits at the right time. Collect and discard the fallen fruits</i>
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<b>Vegetables</b>			<i>Intercultural operations in vegetables are advised to remove the weeds.</i>
<b>Cauliflower, cabbage,</b>		Black spot	<p><i>Prevailing weather may conducive for black spot disease in Cole Crops and other leafy vegetables. On leaves 'V' shaped chlorotic to yellow lesions develop from the leaf margins. They become black later. The veins and veinlets become black. Systemic infection spreads to the root. The vascular bundle in the stem becomes black followed by integration of fleshy stalk. The attack of soft rot organisms causes further deterioration. The cabbage heads and cauliflower curds are invaded and become discoloured.</i></p> <p><i>To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed. Intercultural operation should be avoided when the plants are wet. Provision of drainage and free air movement to dry the moisture present in the soil</i></p>
		Cut worm	<p><i>Spray Neem seed kernel extract @500g/ha twice at 10 days interval. Frequent Monitoring should be done and mechanically destroy the caterpillar</i></p>
<b>Litchi</b>			<i>Mulch the tree basin, protect young litchi plants from cold and suppress new flush by application of growth inhibitors</i>
<b>Ginger / turmeric</b>	Maturity stage		<i>For Ginger and turmeric, field must be inspected daily for disease appearance. While inspecting, the healthy plants/plots must be marked and kept for planting in the next season. Marking has to be done properly otherwise when plant matures and gets dried up, it will be very difficult to find out the marked plots.</i>
<p><b>Livestock</b></p> <ul style="list-style-type: none"> <li>• Ensure periodic vaccination of animals against FMD, Brucellosis, Haemorrhagic Septicaemia, Anthrax</li> <li>• Animals should be given mineral mixture along with salt regularly and wheat grains, jaggery etc. may be provided @ 10% - 20% in the daily ration during winter season to meet the energy requirement of the animals</li> <li>• Avoid feeding of damp and foul smelling feed to all livestock and poultry</li> </ul>			
<b>Poultry</b>	<ul style="list-style-type: none"> <li>➤ Provide good ventilation but prevent chill air from entering in</li> <li>➤ Seal all the cracks and crevices in the house</li> <li>➤ Side curtains can be used during severe winds and draft thus sealing the house from cold draft</li> <li>➤ Oil or fat can be added to feed and energy levels in the feed can be raised to meet the higher energy need of the bird</li> <li>➤ Provide warm water to the birds</li> </ul>		



<b>Piggery</b>	<ul style="list-style-type: none"> <li>➤ Swine flu may occur in pig at all stages. It is a viral flu and highly contagious. Clinical signs include high fever, skin lesions, convulsions, constipation followed by diarrhea and vomiting, less appetite. Once the symptoms is noticed, immediately informed the nearby veterinary doctor</li> <li>➤ Sick or injured animals should be attended to immediately, preferably move to a warm comfortable environment. Medications should be used only on the advice of a veterinarian, following recommended treatment.</li> </ul>
<b>Fisheries</b>	
	As the water temperature of your pond falls, the fish will require less food. Never overfeed your fish. Excess food will pollute the pond water, so only feed amounts that will be completely consumed by your fish within 2 minutes

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# Integrated Agromet Advisory Service Bulletin from 20<sup>th</sup> to 24<sup>th</sup> Jan'18 Phek District

**Bulletin No:06/2018**

### *Weather summary of the preceding week*

- No rain occurred the past week
- Maximum and minimum temperatures ranged 16<sup>0</sup>C to 17<sup>0</sup>C and 4<sup>0</sup>C to 6<sup>0</sup>C, respectively.
- Relative humidity varied from 30% to 90%.
- Wind speed ranged from 1 to 2 kmph

### *Weather forecast valid upto 24<sup>th</sup> Jan 2018*

- Probability of no rain the coming week.
- **Max temp** is likely to be 18<sup>0</sup>C - 19<sup>0</sup>C and the **min temp** 7<sup>0</sup>C to 8<sup>0</sup>C
- **Sky is likely to be clear** the coming week
- **Relative Humidity** is likely to range from 26% to 84%.
- **Wind speed** may reach upto 2-4 kmph  
**Wind direction** will be mostly southeasterly

### **General Recommendations**

- Spraying operation should be done only on dry/clear weather
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides

### *Field crops*

<b>Main Crops</b>	<b>Stage</b>	<b>Pest/ Diseases</b>	<b>Agro-meteorological Advisories</b>
<i>TRC/WRC paddy</i>	Storage		<i>Dry the paddy grains properly and regularly before storing to reduce storage insect pests and fungus. Paddy grains can be mixed with neem leaves at the time of storage to reduce storage pests.</i>
<i>Toria</i>	Flowering stage	-	<i>Keep the field free from weeds and daily scouting of the field should be done for aphid</i>
<i>Rabi maize</i>	Silking stage		<i>Weeding and earthing up should be carried out</i>
<i>Linseed/lentil</i>	vegetative stage		<i>Soil moisture conservation techniques like mulching with crop residue is recommended</i>

### *Horticultural crop*

<i>Khasi mandarin</i>	Harvesting stage		<i>Harvest the ripened fruits at the right time. Collect and discard the fallen fruits</i>
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<b>Vegetables</b>			<i>Intercultural operations in vegetables are advised to remove the weeds.</i>
<b>Cauliflower, cabbage,</b>		Black spot	<i>Prevailing weather may conducive for black spot disease in Cole Crops and other leafy vegetables. On leaves 'V' shaped chlorotic to yellow lesions develop from the leaf margins. They become black later. The veins and veinlets become black. Systemic infection spreads to the root. The vascular bundle in the stem becomes black followed by integration of fleshy stalk. The attack of soft rot organisms causes further deterioration. The cabbage heads and cauliflower curds are invaded and become discoloured. To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed. Intercultural operation should be avoided when the plants are wet. Provision of drainage and free air movement to dry the moisture present in the soil</i>
		Cut worm	<i>Spray Neem seed kernel extract @500g/ha twice at 10 days interval. Frequent Monitoring should be done and mechanically destroy the caterpillar</i>
<b>Litchi</b>			<i>Mulch the tree basin, protect young litchi plants from cold and suppress new flush by application of growth inhibitors</i>
<b>Ginger / turmeric</b>	Maturity stage		<i>For Ginger and turmeric, field must be inspected daily for disease appearance. While inspecting, the healthy plants/plots must be marked and kept for planting in the next season. Marking has to be done properly otherwise when plant matures and gets dried up, it will be very difficult to find out the marked plots.</i>
<b>Livestock</b>			
<ul style="list-style-type: none"> <li>• Ensure periodic vaccination of animals against FMD, Brucellosis, Haemorrhagic Septicaemia, Anthrax</li> <li>• Animals should be given mineral mixture along with salt regularly and wheat grains, jaggery etc. may be provided @ 10% - 20% in the daily ration during winter season to meet the energy requirement of the animals</li> <li>• Avoid feeding of damp and foul smelling feed to all livestock and poultry</li> </ul>			
<b>Poultry</b>	<ul style="list-style-type: none"> <li>➤ Provide good ventilation but prevent chill air from entering in</li> <li>➤ Seal all the cracks and crevices in the house</li> <li>➤ Side curtains can be used during severe winds and draft thus sealing the house from cold draft</li> <li>➤ Oil or fat can be added to feed and energy levels in the feed can be raised to meet the higher energy need of the bird</li> </ul>		

		➤ Provide warm water to the birds
	<b>Piggery</b>	<ul style="list-style-type: none"> <li>➤ Swine flu may occur in pig at all stages. It is a viral flu and highly contagious. Clinical signs include high fever, skin lesions, convulsions, constipation followed by diarrhea and vomiting, less appetite. Once the symptoms is noticed, immediately informed the nearby veterinary doctor</li> <li>➤ Sick or injured animals should be attended to immediately, preferably move to a warm comfortable environment. Medications should be used only on the advice of a veterinarian, following recommended treatment.</li> </ul>
	<b><i>Fisheries</i></b>	
		As the water temperature of your pond falls, the fish will require less food. Never overfeed your fish. Excess food will pollute the pond water, so only feed amounts that will be completely consumed by your fish within 2 minutes

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## Integrated Agromet Advisory Service Bulletin from 20<sup>th</sup> to 24<sup>th</sup> Jan'18 Tuensang District

**Bulletin No:06/2018**

### *Weather summary of the preceding week*

- No rain occurred the past week
- Maximum and minimum temperatures ranged 13<sup>0</sup>C to 16<sup>0</sup>C and 4<sup>0</sup>C to 6<sup>0</sup>C, respectively.
- Relative humidity varied from 30% to 95%.
- Wind speed ranged from 3 to 4 kmph

### *Weather forecast valid upto 24<sup>th</sup> Jan 2018*

- Probability of no rain the coming week.
- **Max temp** is likely to be 18<sup>0</sup>C - 19<sup>0</sup>C and the **min temp** 7<sup>0</sup>C to 8<sup>0</sup>C
- **Sky is likely to be clear** the coming week
- **Relative Humidity** is likely to range from 28% to 85%.
- **Wind speed** may reach upto 2-3 kmph
- **Wind direction** will be mostly southerly

### **General Recommendations**

- Spraying operation should be done only on dry/clear weather
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides

### *Field crops*

<b>Main Crops</b>	<b>Stage</b>	<b>Pest/ Diseases</b>	<b>Agro-meteorological Advisories</b>
<i>TRC/WRC paddy</i>	Storage		<i>Dry the paddy grains properly and regularly before storing to reduce storage insect pests and fungus. Paddy grains can be mixed with neem leaves at the time of storage to reduce storage pests.</i>
<i>Toria</i>	Flowering stage	-	<i>Keep the field free from weeds and daily scouting of the field should be done for aphid</i>
<i>Rabi maize</i>	Silking stage		<i>Weeding and earthing up should be carried out</i>
<i>Linseed/lentil</i>	vegetative stage		<i>Soil moisture conservation techniques like mulching with crop residue is recommended</i>

### *Horticultural crop*

<i>Khasi mandarin</i>	Harvesting stage		<i>Harvest the ripened fruits at the right time. Collect and discard the fallen fruits</i>
<i>Vegetables</i>			<i>Intercultural operations in vegetables are advised to remove the weeds.</i>

<b>Cauliflower, cabbage,</b>		Black spot	<p>Prevailing weather may conducive for black spot disease in Cole Crops and other leafy vegetables. On leaves 'V' shaped chlorotic to yellow lesions develop from the leaf margins. They become black later. The veins and veinlets become black. Systemic infection spreads to the root. The vascular bundle in the stem becomes black followed by integration of fleshy stalk. The attack of soft rot organisms causes further deterioration. The cabbage heads and cauliflower curds are invaded and become discoloured.</p> <p>To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed. Intercultural operation should be avoided when the plants are wet. Provision of drainage and free air movement to dry the moisture present in the soil</p>
		Cut worm	<p>Spray Neem seed kernel extract @500g/ha twice at 10 days interval. Frequent Monitoring should be done and mechanically destroy the caterpillar</p>
<b>Litchi</b>			<p>Mulch the tree basin, protect young litchi plants from cold and suppress new flush by application of growth inhibitors</p>
<b>Ginger / turmeric</b>	Maturity stage		<p>For Ginger and turmeric, field must be inspected daily for disease appearance. While inspecting, the healthy plants/plots must be marked and kept for planting in the next season. Marking has to be done properly otherwise when plant matures and gets dried up, it will be very difficult to find out the marked plots.</p>
<b>Livestock</b>			
<ul style="list-style-type: none"> <li>• Ensure periodic vaccination of animals against FMD, Brucellosis, Haemorrhagic Septicaemia, Anthrax</li> <li>• Animals should be given mineral mixture along with salt regularly and wheat grains, jaggery etc. may be provided @ 10% - 20% in the daily ration during winter season to meet the energy requirement of the animals</li> <li>• Avoid feeding of damp and foul smelling feed to all livestock and poultry</li> </ul>			
<b>Poultry</b>	<ul style="list-style-type: none"> <li>➤ Provide good ventilation but prevent chill air from entering in</li> <li>➤ Seal all the cracks and crevices in the house</li> <li>➤ Side curtains can be used during severe winds and draft thus sealing the house from cold draft</li> <li>➤ Oil or fat can be added to feed and energy levels in the feed can be raised to meet the higher energy need of the bird</li> <li>➤ Provide warm water to the birds</li> </ul>		
<b>Piggery</b>	<ul style="list-style-type: none"> <li>➤ Swine flu may occur in pig at all stages. It is a viral flu and highly contagious. Clinical signs include high fever, skin lesions, convulsions, constipation followed by diarrhea and vomiting, less appetite. Once the symptoms is noticed, immediately informed the nearby veterinary doctor</li> <li>➤ Sick or injured animals should be attended to immediately, preferably move to a warm comfortable</li> </ul>		

		environment. Medications should be used only on the advice of a veterinarian, following recommended treatment.
	<b><i>Fisheries</i></b>	
 <p>भारत ICAR</p>		As the water temperature of your pond falls, the fish will require less food. Never overfeed your fish. Excess food will pollute the pond water, so only feed amounts that will be completely consumed by your fish within 2 minutes

## SCIENTIFIC EXPERT COMMITTEE

Sl.no	Name	Designation	Department	
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2	Dr. L.K. Baishya	Senior Scientist	Agronomy	lkbicar@gmail.com
3	Ph. Romen Sharma	Scientist	Agricultural Extension	romen.agext@gmail.com
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6	Dr. Azeze Seyie	Scientist	Spices, Plantation & Medicinal & Aromatic Plants	azezeseyie@yahoo.com
7	Jyotish Barman	Scientist	Fisheries Resource Management	jyotish5@gmail.com
8	Aabon W Yanthan	Scientist	Vegetable Science	aabon.iari@gmail.com



# Integrated Agromet Advisory Service Bulletin from 20<sup>th</sup> to 24<sup>th</sup> Jan '18 Wokha District

**Bulletin No:06/2018**

## *Weather summary of the preceding week*

- No rain occurred the past week
- Maximum and minimum temperatures ranged 20<sup>o</sup>C to 21<sup>o</sup>C and 6<sup>o</sup>C to 7<sup>o</sup>C, respectively.
- Relative humidity varied from 43% to 90%.
- Wind speed ranged from 4 to 5 kmph

## *Weather forecast valid upto 24<sup>th</sup> Jan 2018*

- Probability of no rain the coming week.
- **Max temp** is likely to be 22<sup>o</sup>C - 23<sup>o</sup>C and the **min temp** 10<sup>o</sup>C to 11<sup>o</sup>C
- **Sky is likely to be clear** the coming week
- **Relative Humidity** is likely to range from 39% to 84%.
- **Wind speed** may reach upto 4- 5 kmph
- **Wind direction** will be southeasterly

## **General Recommendations**

- Spraying operation should be done only on dry/clear weather
- Obtain seeds from reputed/certified/reliable source
- Use fertilizers/pesticides as per recommended doses for the location
- Preference must be given on use of organic manures/bio-fertilizers & bio-pesticides

## *Field crops*

<b>Main Crops</b>	<b>Stage</b>	<b>Pest/ Diseases</b>	<b>Agro-meteorological Advisories</b>
<i>TRC/WRC paddy</i>	Storage		<i>Dry the paddy grains properly and regularly before storing to reduce storage insect pests and fungus. Paddy grains can be mixed with neem leaves at the time of storage to reduce storage pests.</i>
<i>Toria</i>	Flowering stage	-	<i>Keep the field free from weeds and daily scouting of the field should be done for aphid</i>
<i>Rabi maize</i>	Silking stage		<i>Weeding and earthing up should be carried out</i>
<i>Linseed/lentil</i>	vegetative stage		<i>Soil moisture conservation techniques like mulching with crop residue is recommended</i>

## *Horticultural crop*

<i>Khasi mandarin</i>	Harvesting stage		<i>Harvest the ripened fruits at the right time. Collect and discard the fallen fruits</i>
<i>Vegetables</i>			<i>Intercultural operations in vegetables are advised to remove the weeds.</i>

<b>Cauliflower, cabbage,</b>		Black spot	<p>Prevailing weather may conducive for black spot disease in Cole Crops and other leafy vegetables. On leaves 'V' shaped chlorotic to yellow lesions develop from the leaf margins. They become black later. The veins and veinlets become black. Systemic infection spreads to the root. The vascular bundle in the stem becomes black followed by integration of fleshy stalk. The attack of soft rot organisms causes further deterioration. The cabbage heads and cauliflower curds are invaded and become discoloured.</p> <p>To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed. Intercultural operation should be avoided when the plants are wet. Provision of drainage and free air movement to dry the moisture present in the soil</p>
		Cut worm	<p>Spray Neem seed kernel extract @ 500g/ha twice at 10 days interval. Frequent Monitoring should be done and mechanically destroy the caterpillar</p>
<b>Litchi</b>			<p>Mulch the tree basin, protect young litchi plants from cold and suppress new flush by application of growth inhibitors</p>
<b>Ginger / turmeric</b>	Maturity stage		<p>For Ginger and turmeric, field must be inspected daily for disease appearance. While inspecting, the healthy plants/plots must be marked and kept for planting in the next season. Marking has to be done properly otherwise when plant matures and gets dried up, it will be very difficult to find out the marked plots.</p>
<b>Livestock</b>			
<ul style="list-style-type: none"> <li>• Ensure periodic vaccination of animals against FMD, Brucellosis, Haemorrhagic Septicaemia, Anthrax</li> <li>• Animals should be given mineral mixture along with salt regularly and wheat grains, jaggery etc. may be provided @ 10% - 20% in the daily ration during winter season to meet the energy requirement of the animals</li> <li>• Avoid feeding of damp and foul smelling feed to all livestock and poultry</li> </ul>			
<b>Poultry</b>	<ul style="list-style-type: none"> <li>➤ Provide good ventilation but prevent chill air from entering in</li> <li>➤ Seal all the cracks and crevices in the house</li> <li>➤ Side curtains can be used during severe winds and draft thus sealing the house from cold draft</li> <li>➤ Oil or fat can be added to feed and energy levels in the feed can be raised to meet the higher energy need of the bird</li> <li>➤ Provide warm water to the birds</li> </ul>		



<b>Piggery</b>	<ul style="list-style-type: none"> <li>➤ Swine flu may occur in pig at all stages. It is a viral flu and highly contagious. Clinical signs include high fever, skin lesions, convulsions, constipation followed by diarrhea and vomiting, less appetite. Once the symptoms is noticed, immediately informed the nearby veterinary doctor</li> <li>➤ Sick or injured animals should be attended to immediately, preferably move to a warm comfortable environment. Medications should be used only on the advice of a veterinarian, following recommended treatment.</li> </ul>
<b>Fisheries</b>	
	As the water temperature of your pond falls, the fish will require less food. Never overfeed your fish. Excess food will pollute the pond water, so only feed amounts that will be completely consumed by your fish within 2 minutes

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भारत कृषि अनुसंधान संस्थान  
ICAR - RCNEH

ICAR RESEARCH COMPLEX FOR NEH REGION  
(Indian Council of Agricultural Research)  
NAGALAND CENTER, JHARNAPANI, MEDZIPHEMA

## Integrated Agromet Advisory Service Bulletin from 20<sup>th</sup> to 24<sup>th</sup> Jan '18 Zunheboto District

**Bulletin No:06/2018**

### *Weather summary of the preceding week*

- No rain occurred the past week
- Maximum and minimum temperatures ranged 16<sup>o</sup>C to 18<sup>o</sup>C and 3<sup>o</sup>C to 5<sup>o</sup>C, respectively.
- Relative humidity varied from 37% to 85%.
- Wind speed ranged from 4 to 5 kmph

### *Weather forecast valid upto 24<sup>th</sup> Jan 2018*

- Probability of no rain the coming week.
- **Max temp** is likely to be 18<sup>o</sup>C - 19<sup>o</sup>C and the **min temp** 7<sup>o</sup>C to 8<sup>o</sup>C
- **Sky is likely to be clear** the coming week
- **Relative Humidity** is likely to range from 37% to 88%.
- **Wind speed** may reach upto 3-4 kmph
- **Wind direction** will be mostly southeasterly

### **General Recommendations**

- Spraying operation should be done only on dry/clear weather
- Obtain seeds from reputed/certified/reliable source
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### *Field crops*

<b>Main Crops</b>	<b>Stage</b>	<b>Pest/ Diseases</b>	<b>Agro-meteorological Advisories</b>
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<i>Toria</i>	Flowering stage	-	<i>Keep the field free from weeds and daily scouting of the field should be done for aphid</i>
<i>Rabi maize</i>	Silking stage		<i>Weeding and earthing up should be carried out</i>
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### *Horticultural crop*

<i>Khasi mandarin</i>	Harvesting stage		<i>Harvest the ripened fruits at the right time. Collect and discard the fallen fruits</i>
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<b>Vegetables</b>			<i>Intercultural operations in vegetables are advised to remove the weeds.</i>
<b>Cauliflower, cabbage,</b>		Black spot	<i>Prevailing weather may conducive for black spot disease in Cole Crops and other leafy vegetables. On leaves 'V' shaped chlorotic to yellow lesions develop from the leaf margins. They become black later. The veins and veinlets become black. Systemic infection spreads to the root. The vascular bundle in the stem becomes black followed by integration of fleshy stalk. The attack of soft rot organisms causes further deterioration. The cabbage heads and cauliflower curds are invaded and become discoloured. To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed. Intercultural operation should be avoided when the plants are wet. Provision of drainage and free air movement to dry the moisture present in the soil</i>
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